INVENTOR SEARCH RESULTS:

? **ds**

```
Set     Items   Description
S1     109077   AU=(PARK, J? OR PARK J?)
S2       3822   MASTODON? ? OR MAMMOTH? ? OR STEGODON? ?
S3          1   S1 AND S2
S4      45538   (NATURAL OR HOLISTIC OR COMPLEMENTARY OR ALTERNATIVE OR IN-
                TEGRATIVE OR UNCONVENTIONAL OR HERBAL?)()(MEDICINE OR
                TREATMENT? ? OR REMEDY OR REMEDIES)
S5        109   S1 AND S4
S6      58980   IC=A61H?
S7         76   S1 AND S6
S8          1   S2 AND S6
S9    6526962   HEAL? ? OR HEALING OR HEALED OR THERAPY OR THERAPIES OR
                THERAPEUTIC? OR REVITALIZ? OR HOMEOPATH? OR HYDROTHERAP? OR
                SAUNA? ? OR HOT()(BATH? OR BOX OR BOXES OR WRAP? ?) OR
                AROMATHERAP?
S10      7187   S1 AND S9
S11        49   S10 AND S4
```

? **show files**

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File 350:Derwent WPIX 1963-2011/UD=201118
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File   8:Ei Compendex(R) 1884-2011/Mar W3
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         (c) 2011 The Thomson Corporation
```

8/25/1 (Item 1 from file: 350)
DIALOG(R)File 350: Derwent WPIX

0013085462 *Drawing available*
WPI Acc no: 2003-166075/200316
XRAM Acc no: C2003-043071
XRPX Acc No: N2003-131159
Device useful for providing therapeutic healing contains a lower mat, an upper cover, at least one herb essence supplier and an air pump
Patent Assignee: PARK J M H (PARK-I); PARK M H (PARK-I)
Inventor: PARK J M H; PARK M H

Patent Family (2 patents, 2 countries)				
Patent Number	**Kind**	**Date**	**Update**	**Type**
US 20020160057	A1	20021031	200316	B
KR 2002082700	A	20021031	200319	E

Local Applications (no., kind, date): US 2001900262 A 20010707; KR 200122428 A 20010425
Priority Applications (no., kind, date): KR 200122428 A 20010425
Alerting Abstract US A1
NOVELTY - A device (D1) contains a lower mat (3), an upper cover (2), at least one herb essence supplier (41-44) and an air pump (30). (2) is coupled to (3) to form an interior space for placing the body. (41-44) Has an inlet and an outlet, the outlet in gaseous communication with the interior space provides herb essence to the interior space. (30) Is connected to the inlet of (41-44) for supplying air to the interior space.
DESCRIPTION - An INDEPENDENT CLAIM is also included for a device (D2) for eliminating poisons and pollutants from the human body and for revitalizing cells, comprising (2), (3), (41-44) or (30). (2) Is adjustable in different temperature and forms a first five-primary substance stone coating layer; (3) is adjustable in different temperature and forms vibrators and a second five-primary substance stone coating layer; (2) and (3) form an interior space; (41-44) are connected to the interior space formed by the (2) and (3), (41-44) have a discharge outlet connected to the interior space; (30) is connected to (41-44) for supplying air.
USE - For eliminating poisons and pollutants from the human body and for revitalizing cells; for preventing numerous diseases generated by the pollution of blood and water or the destruction of cells in the human body.
ADVANTAGE - The device reproduce new activated cells and increase immunity against disease by enhancing disease preventing capability and natural healing power.
DESCRIPTION OF DRAWINGS - The figure shows perspective view of a device.
2 Upper cover
3 Lower mat
30 Air pump
41-44 Herb essence suppliers.

NPL BIBLIO SEARCH RESULTS:

? **ds**

Set	Items	Description
S1	28059	MASTODON? ? OR MAMMOTH? ? OR STEGODON? ? OR (PRIMITIVE OR PLEISTOCENE OR MIOCENE OR LAST()ICE)()(AGE OR ERA OR YEAR? ? OR PERIOD? ? OR TIME)
S2	22467109	BONE? ? OR VERTEBRA? OR RIB? ? OR FOSSIL? ? OR TUSK? ? OR SCAPULA? ? OR HUMERUS OR ULNA OR HIP()JOINT? ? OR FEMUR? ?

```
S3      211789   MICA? ? OR SHEET()SILICATE OR PHYLLOSILICATE OR (GLITTER?
                 OR SILICATE OR CRYSTAL()LIKE)()MINERAL? ?
S4      102875   LOADSTONE? ? OR LODESTONE? ? OR MAGNETITE? ? OR NATURAL()
                 MAGNET? ?
S5        2404   ELVAN? ? OR QUARTZ()PORPHYRY OR PORPHYRIT?()ROCK? ?
S6      186752   HEMATITE OR HAEMATITE OR IRON()OXIDE OR RED()STONE(2N)(DAI
                 ()COUNTRY) OR FULCRUM()STONE? ? OR HAEMATITUM
S7    12450445   HEAL? ? OR HEALING OR HEALED OR THERAPY OR THERAPIES OR
                 THERAPEUTIC? OR REVITALIZ? OR HOMEOPATH? OR HYDROTHERAP? OR
                 SAUNA? ? OR HOT()(BATH? OR BOX OR BOXES OR WRAP? ?) OR AROMA-
                 THERAP?
S8      152127   (NATURAL OR HOLISTIC OR COMPLEMENTARY OR ALTERNATIVE OR IN-
                 TEGRATIVE OR UNCONVENTIONAL OR HERBAL? OR MEDICINAL)()
                (MEDICINE OR TREATMENT? ? OR REMEDY OR REMEDIES)
S9        2176   S1(7N)S2
S10          1   S7:S8(5N)S9
S11        470   (HOLISTIC? OR  MEDICINAL? OR MEDICINE OR TREATMENT? ? OR
                 REMEDY OR REMEDIES OR PHARMA? OR THERAP?)(S)(S1 OR MAMMUTH?)
S12         38   S11(S)S2
S13         25   RD  (unique items)
S14        114   S7:S8(7N)S3
S15          0   S14(S)S4
S16          0   S14(S)S4:S6
S17        263   S7:S8(7N)S4
S18          0   S7:S8(7N)S5
S19        554   S7:S8(7N)S6
S20          0   S14(S)S17
S21          0   S14(S)(S17 OR S19)
S22    2112382   (THERAP? OR MEDICIN? OR PHARMA?)(5N)(METHOD? ? OR PROCESS?
                 OR SUBSTANC? OR COMPOUND? ? OR COMPONENT? ? OR ELEMENT? ?)
S23        134   (S14 OR S17 OR S19) AND S22
S24        120   RD  (unique items)

? show files

File 155:MEDLINE(R) 1950-2011/Mar 21
         (c) format only 2011 Dialog
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         (c) 2011 NTIS, Intl Cpyrght All Rights Res
File   2:INSPEC 1898-2011/Mar W2
         (c) 2011 The IET
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         (c) 2007 CSA.
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```

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(c) 2006 The Thomson Corporation
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(c) format only 2011 Dialog
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(c) 2011 The Thomson Corporation
File 89:GeoRef 1785-2011/Feb B2
(c) 2011 American Geological Institute

Dialog eLink: USPTO Full Text Retrieval Options
13/5/2 (Item 2 from file: 155)
DIALOG(R)File 155: MEDLINE(R)

17643356 **PMID:** 16819180
In vivo characterization of sedative activities of Fossilia Mastodi OSSIS.

Ha Jeoung-Hee; Lee Maan-Gee; Chang Soo-Min; Lee Jae-Tae
Department of Pharmacology, School of Medicine, Kyungpook National University, Taegu, Republic of Korea.
jhha4834@mail.knu.ac.kr
Biological & pharmaceutical bulletin (Japan) Jul 2006 , 29 (7) p1414-7 , **ISSN:** 0918-6158--Print 0918-6158--Linking
Journal Code: 9311984
Publishing Model Print
Document type: Journal Article; Research Support, Non-U.S. Gov't

Languages: ENGLISH
Main Citation Owner: NLM
Record type: MEDLINE; Completed
Subfile: INDEX MEDICUS; Toxbib
Fossilia Mastodi OSSIS, which is a skeletal **fossil** of a **Mastodon**, an ancient mammal, has been found to have anxiolytic, sedative and anticonvulsant activities in Oriental **medicine**. In this study, in vivo characterization of the sedative activities of Fossilia Mastodi OSSIS was performed in order to obtain basic information for the development of a putative natural sedative. The 80% methanol extract of Fossilia Mastodi OSSIS given per os at a dose of 3 g/kg in mice showed anxiolysis, potentiation of pentobarbital sleeping time, reduced locomotor activity, and anticonvulsive activity. Fossilia elicited GABA(A) receptor-mediated anxiolysis. The data obtained suggest that the 80% methanol extract of Fossilia Mastodi OSSIS contains some biologically active principles with sedative activity.
Tags: Male
Descriptors: *Fossils; *Hypnotics and Sedatives--pharmacology--PD; *Sleep--drug effects --DE; *Sleep--physiology--PH; *Tissue Extracts--pharmacology--PD ; Animals; Diazepam--pharmacology--PD; Mammals; Mice; Mice, Inbred ICR; Motor Activity--drug effects--DE; Pentobarbital; Picrotoxin--toxicity--TO; Seizures--chemically induced--CI
CAS Registry No.: 0 (Hypnotics and Sedatives); 0 (Tissue Extracts); 124-87-8 (Picrotoxin); 439-14-5 (Diazepam); 76-74-4 (Pentobarbital)
Record Date Created: 20060704
Record Date Completed: 20060913

Dialog eLink: USPTO Full Text Retrieval Options
13/5/8 (Item 4 from file: 5)
DIALOG(R)File 5: Biosis Previews(R)

12486236 **Biosis No.:** 199497507521
Spondyloarthropathy in proboscideans

Author: Rothschild Bruce M (Reprint); Wang Xiaoming; Shoshani Jeheskel
Author Address: Carnegie Museum Nat. History, Pittsburgh, PA 15213, USA**USA
Journal: Journal of Zoo and Wildlife Medicine 25 (3): p 360-366 1994 1994
ISSN: 1042-7260
Document Type: Article
Record Type: Abstract
Language: English
Abstract: Noting the common occurrence of arthritis in contemporary elephants, a skeletal study was undertaken to assess

the frequency and nature of the affliction. Spondyloarthropathy was unequivocally diagnosed in **mammoths** (**Mammuthus** primigenius) and contemporary elephants on the basis of fusion of **vertebral** bodies with marginal syndesmophytes, zygoapophyseal joint fusion, and peripheral erosive arthritis and fusion and was easily distinguished from infectious spondylitis and diffuse idiopathic skeletal hyperostosis. **Vertebral** involvement was limited in distribution, in a pattern characteristic of human psoriatic arthritis and Reiter's syndrome, also referred to as reactive arthritis. Infectious diarrhea or sexually transmitted reactive arthritis are the most likely candidates for this phenomenon, as recognized in elephants and **mammoths**, which affords a unique opportunity for **therapeutic** intervention.

DESCRIPTORS:
Major Concepts: Ecology--Environmental Sciences; Evolution and Adaptation; Paleobiology; Pathology; Skeletal System--Movement and Support; Veterinary Medicine-- Medical Sciences
Biosystematic Names: Elephantidae--Proboscidea, Mammalia, Vertebrata, Chordata, Animalia
Organisms: elephant (Elephantidae); Mammuthus primigenius (Elephantidae)
Common Taxonomic Terms: Animals; Chordates; Elephants; Mammals; Nonhuman Vertebrates; Nonhuman Mammals; Vertebrates
Time: Archean; Pleistocene
Miscellaneous Terms: Concept Codes: DIAGNOSIS; EVOLUTION; REACTIVE ARTHRITIS; SEXUALLY TRANSMITTED DISEASE; Fossil

24/5/2 (Item 2 from file: 155)
DIALOG(R)File 155: MEDLINE(R)

36555212 **PMID:** 20732712
The use of magnetite nanoparticles for implant-assisted magnetic drug targeting in thrombolytic therapy.

Kempe Henrik; Kempe Maria; Snowball Ian; Wallen Rita; Arza Carlos Rodriguez ; Gotberg Matthias; Olsson Tommy
Biomedical Polymer Technology, Department of Experimental Medical Science, Lund University, BMC D11, SE-22184 Lund, Sweden.
Biomaterials (England) Dec 2010 , 31 (36) p9499-510 ,
ISSN: 1878-5905--Electronic 0142-9612--Linking **Journal Code:** 8100316
Publishing Model Print-Electronic; Erratum in Biomaterials. 2011 Feb;32(6):1767 Note Snowball, Ian [added]; Wallen, Rita [added]; Arza, Carlos Rodriguez [added]; Gotberg, Matthias [added] Olsson, Tommy [added]
Document type: Journal Article; Research Support, Non-U.S. Gov't
Languages: ENGLISH
Main Citation Owner: NLM

Record type: MEDLINE; Completed
Subfile: INDEX MEDICUS; Toxbib
Implant-assisted targeting of magnetic particles under the influence of an external magnetic field has previously been verified through mathematical modeling, in vitro studies, and in vivo studies on rat carotid arteries as a feasible method for localized drug delivery. The present study focuses on the development of nanoparticles for the treatment of in-stent thrombosis. Magnetic nanoparticles in the size-range 10-30 nm were synthesized in a one-pot procedure by precipitation of ferrous hydroxide followed by oxidation to magnetite. The nanoparticles were silanized with tetraethyl orthosilicate in the presence of triethylene glycol and/or polyethylene glycol. The surface coated magnetite nanoparticles were activated with either N-hydroxysulfosuccinimide or tresyl chloride for covalent immobilization of tissue plasminogen activator (tPA). Hysteresis loops showed saturation magnetizations of 55.8, 44.1, and 43.0 emu/g for the naked nanoparticles, the surface coated nanoparticles, and the tPA-nanoparticle conjugates, respectively. The hemolytic activity of the nanoparticles in blood was negligible. An initial in vivo biocompatibility test in pig, carried out by intravascular injection of the nanoparticles in a stented brachial artery, showed no short-term adverse effects. In vitro evaluation in a flow-through model proved that the nanoparticles were captured efficiently to the surface of a ferromagnetic coiled wire at the fluid velocities typical for human arteries. A preliminary test of the tPA-nanoparticle conjugates in a pig model suggested that the conjugates may be used for treatment of in-stent thrombosis in coronary arteries.

Tags: Female
Descriptors: *Drug Delivery Systems--methods--MT; *Implants, Experimental; *Magnetics-- **methods**--MT; ***Magnetite** Nanoparticles--**therapeutic** use --TU; *Thrombolytic **Therapy**--**methods**--MT ; Animals; Enzymes, Immobilized--metabolism--ME; Erythrocytes--pathology--PA; Hemolysis; Humans; Magnetite Nanoparticles--chemistry--CH; Magnetite Nanoparticles--ultrastructure--UL; Materials Testing; Rats; Spectroscopy, Fourier Transform Infrared; Surface Properties; Sus scrofa; Tissue Plasminogen Activator--metabolism--ME

Dialog eLink: USPTO Full Text Retrieval Options
24/5/4 (Item 4 from file: 155)
DIALOG(R)File 155: MEDLINE(R)

36349452 **PMID:** 20210609
On the optimal choice of the exposure conditions and the nanoparticle features in magnetic nanoparticle hyperthermia.

Bellizzi Gennaro; Bucci Ovidio M

Dipartimento di Ingegneria Biomedica, Elettronica e delle Telecomunicazioni Universita di Napoli Federico II, 80125 Napoli, Italia.
International journal of hyperthermia - the official journal of European Society for Hyperthermic Oncology, North American Hyperthermia Group (England) 2010 , 26 (4) p389-403 ,
ISSN: 1464-5157--Electronic 0265-6736--Linking **Journal Code:** 8508395
Publishing Model Print
Document type: Journal Article; Research Support, Non-U.S. Gov't
Languages: ENGLISH
Main Citation Owner: NLM
Record type: MEDLINE; Completed
Subfile: INDEX MEDICUS; Toxbib
PURPOSE: Two points are particularly relevant for the clinical use of magnetic nanoparticle hyperthermia: the optimisation of both the exposure conditions and the magnetic nanoparticle characteristics, and the assessment of the limits of scalability of the treatment. To answer these two points a criterion for the individuation of the magnetic field parameters and of the magnetic nanoparticle features that minimise the therapeutic concentration of nanoparticles to be used in magnetic nanoparticle hyperthermia is developed. METHODS: The proposed criterion is based on the estimation of the levels of heat generation rate, due to the electromagnetic field, to be supplied to both the cancerous and the neighbouring healthy tissues for achieving the therapeutic heating of the tumour with a desired degree of spatial selectivity. These quantities are determined by exploiting the Pennes bioheat transfer model. RESULTS: The reliability of the criterion has been proven by means of an extensive numerical analysis, performed by considering tumours of spherical shape embedded in tissues of cylindrical shape. Several cases, including tumours of different sizes and position have been considered. CONCLUSIONS: By exploiting the proposed criterion a study of the clinical scalability of the therapeutic approach is presented.
Descriptors: *Hyperthermia, Induced--**methods**--MT; ***Magnetite** Nanoparticles --**therapeutic** use--TU; *Models, Biological; *Neoplasms-- **therapy**--TH; *Radio Waves--therapeutic use--TU ; Algorithms; Body Temperature--radiation effects--RE; Electromagnetic Fields ; Hot Temperature; Humans; Magnetite Nanoparticles--administration and dosage--AD; Magnetite Nanoparticles--chemistry--CH; Neoplasms--pathology --PA; Particle Size; Thermal Conductivity

18625431 **PMID:** 18093468

Magnetic nanoparticles: prospects in cancer imaging and therapy.

Tang Monica; Russell Pamela J; Khatri Aparajita
Oncology Research Centre, Prince of Wales Hospital, Level 2, Clinical Sciences Building, Barker St., Randwick, NSW 2031, Australia.
Discovery medicine (United States) Jun 2007 , 7 (38) p68-74 , **ISSN:** 1944-7930--Electronic 1539-6509--Linking **Journal Code:** 101250006
Publishing Model Print
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: MEDLINE; Completed
Subfile: INDEX MEDICUS; Toxbib
Nanotechnology based on the use of submicronic particles of inorganic and/or organic origin has the potential to revolutionalize the clinical management of cancer; the possibility of real time monitoring of disease progression and effects of **therapy** is now real. Especially, **iron oxide** super paramagnetic nanoparticles have shown clinical utility in cancer imaging and drug delivery and some formulations are now FDA-approved for use in the clinic. The prospects of magnetic nanoparticles in cancer imaging and treatment are reviewed.
Descriptors: *Antineoplastic Agents; *Drug Carriers--chemistry--CH; *Magnetics; *Metal Nanoparticles--diagnostic use--DU; *Metal Nanoparticles--therapeutic use --TU; *Neoplasms--diagnosis--DI; *Neoplasms--drug therapy--DT ; Animals; Antineoplastic Agents--administration and dosage--AD; Antineoplastic Agents--**therapeutic** use--TU; Ferric **Compounds** --chemistry--CH; Humans; Metal Nanoparticles--chemistry--CH; Nanotechnology
CAS Registry No.: 0 (Antineoplastic Agents); 0 (Drug Carriers); 0 (Ferric Compounds); 1309-37-1 (ferric oxide)

1210918986 **E.I. COMPENDEX No:** 20102613041463
Magnetite nanoparticles with high heating efficiencies for application in the hyperthermia of cancer

Li, Zhixia; Kawashita, Masakazu; Araki, Norio; Mitsumori, Michihide; Hiraoka, Masahiro; Doi, Masaaki
Corresp. Author/Affil: Li, Z.: Graduate School of Biomedical Engineering, Tohoku University, 6-6-11-1306-1, Aramaki-Aoba, Aoba-ku, Sendai, 980-8579, Japan
Corresp. Author email: zhixia@ecei.tohoku.ac.jp
Materials Science and Engineering C (Mater. Sci. Eng. C) (United Kingdom) 2010 30/7 (990-996)

Publication Date: 20100830
Publisher: Elsevier Ltd
ISSN: 0928-4931
Publisher Item Identifier: S0928493110001128
Item Identifier (DOI): 10.1016/j.msec.2010.04.016
Document Type: Article; Journal **Record Type:** Abstract
Language: English **Summary Language:** English
Number of References: 34

Magnetic hyperthermia is a safe **method** for cancer **therapy.** A gap-type alternating current magnetic field (100 kHz, 100-300 Oe) is expected to be clinically applicable for magnetic hyperthermia. In this study, magnetite nanoparticles (MNPs) varying in size from 8 to 413 nm were synthesized using a chemical coprecipitation and an oxidation precipitation method to find the optimum particle size that shows a high heating efficiency in an applied magnetic field. The particles' in vitro heating efficiency in an agar phantom at an MNP concentration of 58 mg Fe/ml was measured in an applied magnetic field. In a magnetic field of 120 Oe, the temperature increase (DeltaT) of the agar phantom within 30 s was 9.3 (deg)C for MNPs with a size of 8 nm, but was less for the other samples, while in a magnetic field of 300 Oe, DeltaT = 55 (deg)C for MNPs with a size of 24 nm, and DeltaT = 25 (deg)C for MNPs with a size of 8 nm. The excellent heating efficiency of MNPs with a size of 24 nm in a magnetic field of 300 Oe may be due to a combination of the effects of both relaxation and hysteresis losses of the magnetic particles. It is believed that MNPs with a size of 8-24 nm will be useful for the in situ hyperthermia treatment of cancer. (c) 2010 Elsevier B.V. All rights reserved.

Descriptors: Algae; Coprecipitation; Heating; Hyperthermia **therapy**; Hysteresis; Magnetic bubbles; Magnetic materials; **Magnetite**; Nanomagnetics; Nanoparticles; Oxide minerals; Particle size; Polysaccharides; Self assembly; *Magnetic field effects
Identifiers: Alternating current; Applied magnetic fields; Cancer therapy; Chemical co-precipitation; Concentration of; Heat efficiency; Heating efficiencies; High heating efficiency; Hysteresis loss; In-situ; In-vitro; Magnetic hyperthermia; Magnetic particle; Magnetite nanoparticles; Precipitation methods; Temperature increase

1210055368 **E.I. COMPENDEX No:** 20091812061329

Experimental and theoretical investigation of cubic FeCo nanoparticles for magnetic hyperthermia

Jing, Ying; Sohn, Hweerin; Kline, Timothy; Victora, Randall H.; Wang, Jian-Ping

Corresp. Author/Affil: Wang, J. -P.: Center for Micromagnetics and Information Technologies (MINT), Department of Electrical and Computer Engineering, University of Minnesota, Minneapolis, MN 55455, United States
Corresp. Author email: jpwang@umn.edu
Journal of Applied Physics (J Appl Phys) (United States) 2009 105/7
Publication Date: 20090428
Publisher: American Institute of Physics
CODEN: JAPIA **ISSN:** 0021-8979
Item Identifier (DOI): 10.1063/1.3074136
Article Number: 07B305
Document Type: Article; Journal **Record Type:** Abstract
Language: English **Summary Language:** English
Number of References: 14
Magnetic nanoparticles have great potential as heating elements for use in magnetic hyperthermia for cancer therapy and drug release. A problem with widely used magnetite and mag-hematite nanoparticles is the relatively low magnetization, which results in low heating efficiency. Here high-magnetic-moment Fe70 Co30 nanoparticles with a cubic shape were synthesized using a gas condensation sputtering technique for potential magnetic hyperthermia application. The mean size of nanoparticles was 12 nm with 13.6% standard deviation. Micromagnetic simulation of particles' experimental hysteresis loop suggests that their behavior is dominated by a uniaxial anisotropy. (c) 2009 American Institute of Physics.
Descriptors: Drug **therapy**; Electric heating elements; Heating; Hyperthermia **therapy**; Hysteresis; Iron ores; Magnetism; **Magnetite**; Nanoparticles; Oxide minerals; *Magnetic materials
Identifiers: Cancer therapies; Cubic shapes; Drug release; FeCo nanoparticles; Gas condensations; Heating efficiencies; Hematite nanoparticles; Magnetic hyperthermias; Magnetic nanoparticles; Mean sizes; Micro-magnetic simulations; Sputtering techniques; Standard deviations; Theoretical investigations; Uniaxial anisotropies

24/5/40 (Item 6 from file: 2)
DIALOG(R)File 2: INSPEC

11334483
Title: In-vitro investigations of nanoparticle magnetic thermotherapy: adjuvant effects and comparison to conventional heating
Author(s): Pierce, Z.[1]; Strawbridge, R.[1]; Gaito, C.[1]; Dulatas, L.[1]; Tate, J.[1]; Ogden, J.[1]; Hoopes, P.J.[1]
Affiliation(s):
[1] Thayer Sch. of Eng., Dartmouth Coll., Hanover, NH, USA
Journal: Proceedings of the SPIE - The International Society

for Optical Engineering , vol.6440 , pp.64400J (6 pp.)
Publisher: SPIE - The International Society for Optical Engineering
Country of Publication: USA
Publication Date: 2007
Conference Title: Thermal Treatment of Tissue: Energy Delivery and Assessment IV
Conference Date: 20 Jan. 2007
Conference Location: San Jose, CA, USA
ISSN: 0277-786X
ISSN Type: print
CODEN: PSISDG
Item Identifier (DOI): 10.1117/12.710579
Language: English
Document Type: Conference Paper in Journal (PA)
Treatment: Practical (P); Experimental (X)
Abstract: Thermotherapy, particularly magnetic nanoparticle hyperthermia, is a promising modality both as a direct cancer cell killing and as a radiosensitization technique for adjuvant **therapy**. Dextran-coated **iron oxide** nanoparticles were mixed with multiple tumor cell lines in solution and exposed to varying magnetic field regimes and combined with traditional external radiotherapy. Heating of cell lines by water bath in temperature patterns comparable to those achieved by nanoparticle hyperthermia was conducted to assess the relative value of nano-magnetic thermotherapy compared with conventional bulk heating techniques and data. (*10 refs.*)
Subfile(s): A (Physics); B (Electrical & Electronic Engineering)
Descriptors: cancer; cellular biophysics; hyperthermia; iron **compounds**; magnetic particles; nanobiotechnology; nanoparticles; radiation **therapy**; tumours
Identifiers: nanoparticle magnetic thermotherapy; adjuvant effects; conventional heating; magnetic nanoparticle hyperthermia; cancer cell killing; radiosensitization; dextran-coated iron oxide nanoparticles; tumor cell lines; radiotherapy; FeO
Classification Codes: A8770H (Radiation therapy); A8760D (Electric and magnetic fields (medical uses)); A8725 (Cellular biophysics); A8716 (Biothermics); A8783 (Nanotechnology applications in biomedicine); B7520C (Radiation therapy)

Dialog eLink: USPTO Full Text Retrieval Options
24/5/44 (Item 10 from file: 2)
DIALOG(R)File 2: INSPEC

10576760
Title: Bifunctional gold nanoshells with a superparamagnetic iron oxide-silica core suitable for both MR imaging and photothermal therapy

Author(s): Ji, X.[1]; Shao, R.[1]; Elliott, A.M.; Stafford, R.J.; Esparza-Coss, E.; Bankson, J.A.; Liang, G.; Luo, Z.; Park, K.; Markert, J.T.; Li, C.
Affiliation(s):
[1] Dept. of Exp. Diagnostic Imaging, Univ. of Texas M.D. Anderson Cancer Center, Houston, TX, USA
Journal: Journal of Physical Chemistry C , vol.111 , no.17 , pp.6245-51
Publisher: ACS
Country of Publication: USA
Publication Date: 3 May 2007
ISSN: 1932-7447
ISSN Type: print
SICI: 1932-7447(20070503)111:17L.6245:BGNW;1-Z
Item Identifier (DOI): 10.1021/jp0702245
Language: English
Document Type: Journal Paper (JP)
Treatment: Practical (P); Experimental (X)
Abstract: We describe the synthesis, characterization, and use of hybrid nanoparticles with a superparamagnetic iron oxide (SPIO)-silica core and a gold nanoshell. These multifunctional nanoparticles, designated SPIO-Au nanoshells, displayed superparamagnetic characteristics and a significant absorbance in the near-infrared (NIR) region of the electromagnetic spectrum. In addition, they exhibited high transverse relaxivities, R_2, and a large R_2/R_1 ratio, and therefore, they could be imaged by MRI to obtain T_2-weighted images. Moreover, the SPIO-Au nanoshells showed efficient photothermal effects when exposed to NIR light. The use of SPIO-Au nanoshells, with their combination of unique magnetic and optical properties, should enhance the efficacy of nanoshell-mediated photothermal therapy by making it possible to direct more nanoparticles to tumors through the application of external magnetic field and by permitting real-time in vivo MRI imaging of the distribution of the nanoparticles before, during, and after photothermal therapy. (*27 refs.*)
Subfile(s): A (Physics); B (Electrical & Electronic Engineering)
Descriptors: biomedical materials; biomedical MRI; gold; infrared spectra; iron **compounds**; magnetic particles; nanoparticles; nanotechnology; photodynamic **therapy**; silicon **compounds**; spin-spin relaxation ; superparamagnetism; tumours
Identifiers: Fe_2O_3-SiO_2; Fe_2O_3-Au; spin-spin relaxation; vivo MRI imaging; optical properties; magnetic properties; photothermal effects; electromagnetic spectrum; near-infrared absorbance; photothermal **therapy**; SPIO-Au nanoshells; hybrid nanoparticles; superparamagnetic **iron oxide**-silica core; bifunctional gold nanoshells

NPL FULLTEXT SEARCH RESULTS:

? **ds**

```
Set     Items   Description
S1      89029   MASTODON? ? OR MAMMOTH? ? OR MAMMUTH? OR STEGODON? ? OR
                (PRIMITIVE OR PLEISTOCENE OR MIOCENE OR LAST()ICE)()(AGE OR ERA
                OR YEAR?? OR PERIOD? ? OR TIME)
S2    1037066   BONE? ? OR VERTEBRA? OR RIB? ? OR FOSSIL? ? OR TUSK? ? OR
                SCAPULA? ? OR HUMERUS OR ULNA OR HIP()JOINT? ? OR FEMUR? ?
S3      34007   MICA? ? OR SHEET()SILICATE OR PHYLLOSILICATE OR (GLITTER?
                OR SILICATE OR CRYSTAL()LIKE)()MINERAL? ?
S4      19338   LOADSTONE? ? OR LODESTONE? ? OR MAGNETITE? ? OR NATURAL()
                MAGNET? ?
S5        638   ELVAN? ? OR QUARTZ()PORPHYRY OR PORPHYRIT?()ROCK? ?
S6      20235   HEMATITE OR HAEMATITE OR IRON()OXIDE OR RED()STONE(2N)(DAI-
                ()COUNTRY) OR FULCRUM()STONE? ? OR HAEMATITUM
S7    3252926   HEAL? ? OR HEALING OR HEALED OR THERAPY OR THERAPIES OR
                THERAPEUTIC? OR REVITALIZ? OR HOMEOPATH? OR HYDROTHERAP? OR
                SAUNA? ? OR HOT()(BATH? OR BOX OR BOXES OR WRAP? ?) OR
                AROMATHERAP?
S8     124648   (NATURAL OR HOLISTIC OR COMPLEMENTARY OR ALTERNATIVE OR IN-
                TEGRATIVE OR UNCONVENTIONAL OR HERBAL? OR MEDICINAL)()(MEDI-
                CINE OR TREATMENT? ? OR REMEDY OR REMEDIES)
S9       2487   S1(S)S2
S10        13   S7:S8(15N)S9
S11        10   RD  (unique items)
S12       123   S7:S8(15N)S3
S13         0   S12(S)S4:S6
S14     38507   S7(S)S8
S15         7   S14(S)S3:S6
S16         7   RD  (unique items)
S17      1572   S7:S8(S)S3:S6
S18    102525   (MEDICIN? OR THERAP? OR PHARMA?)(5N)(SUBSTANC? OR ELEMENT? ?
                OR COMPONENT? ? OR COMPOUND? ?)
S19       514   S18 AND (S3:S6)
S20       443   S19 AND S7
S21        24   S20 AND S8
S22        11   RD  (unique items)

? show files

File  16:Gale Group PROMT(R) 1990-2011/Mar 18
         (c) 2011 Gale/Cengage
File 160:Gale Group PROMT(R) 1972-1989
         (c) 1999 The Gale Group
File 148:Gale Group Trade & Industry DB 1976-2011/Mar 23
         (c) 2011 Gale/Cengage
File 619:Asia Intelligence Wire 1995-2011/Mar 22
         (c) 2011 Fin. Times Ltd
File 441:ESPICOM Pharm&Med DEVICE NEWS 2011/Mar W2
         (c) 2011 ESPICOM Bus.Intell.
File 149:TGG Health&Wellness DB(SM) 1976-2011/Mar W2
         (c) 2011 Gale/Cengage
File  15:ABI/Inform(R) 1971-2011/Mar 22
         (c) 2011 ProQuest Info&Learning
File 635:Business Dateline(R) 1985-2011/Mar 22
         (c) 2011 ProQuest Info&Learning
File 135:NewsRx Weekly Reports 1995-2011/Mar W2
         (c) 2011 NewsRx
File  47:Gale Group Magazine DB(TM) 1959-2011/Feb 16
         (c) 2011 Gale/Cengage
File 444:New England Journal of Med. 1985-2011/Mar W2
         (c) 2011 Mass. Med. Soc.
File 457:The Lancet 1992-2011/Mar W2
         (c) 2011 Elsevier Limited.All rights res
File 129:PHIND(Archival) 1980-2011/Mar W3
```

11/3,K/3 (Item 1 from file: 149)
DIALOG(R)File 149: TGG Health&Wellness DB(SM)

03473235 **Supplier Number:** 171295213 (USE FORMAT 7 OR 9 FOR FULL TEXT)
The Sweat Lodge: the house of the stone people: Lakota lineage holder Paul GhostHorse gives us insight into the purifying ritual.

GhostHorse, Paul
New Life Journal , 8 , 10 , 8(2)
Oct , 2007
Publication Format: Magazine/Journal
Language: English
Record Type: Fulltext **Target Audience:** Consumer
Word Count: 1119 **Line Count:** 00085
Text:
...Magazine wrote years ago about the discovery in Siberia of structures
made from the rib **bones** of **mastodons** with piles of stones in each center. In Finland it's called a **sauna**. Naturopathic physicians
call it hydrotherapy. My Lakota grandfather called it Tunkan Ti, the house
of...

Dialog eLink: USPTO Full Text Retrieval Options
11/3,K/4 (Item 1 from file: 15)
DIALOG(R)File 15: ABI/Inform(R)

04280301 1180027511
Awards 454 Life Sciences named to 2006 Scientific American 50

Anonymous
Genetics & Environmental Business Week pp: 14
Dec 21, 2006
ISSN: 1552-5651 **Journal Code:** GVBW
Word Count: 531
Text:
...cancer-associated genetic variations at the molecular level to potentially enable the personalization of targeted **therapies** and sequencing ancient DNA from **fossils** to enable mapping the genome of

species, such as the Wooly Mammoth and Neandertal.

11/3,K/8 (Item 1 from file: 484)
DIALOG(R)File 484: Periodical Abs Plustext

05846791 **Supplier Number:** 269364311 (USE FORMAT 7 OR 9 FOR FULLTEXT)
Mammoth as mascot
Mayor, Adrienne
American Scientist (IASC) , v91 n1 , p 82-83
Jan/Feb 2003
ISSN: 0003-0996
Journal Code: IASC
Document Type: Book Review-Favorable
Language: English
Record Type: Fulltext; Abstract
Word Count: 1220
TEXT:
...be used in medicine into the 18th century in Europe; apothecaries
eagerly attended excavations of **mammoth** skeletons to gather **bones** and teeth to pulverize into **healing** infusions, and many kept a **mammoth tusk** chained to the counter for scrapings.
In Part Three, "Stories," Cohen paints a panorama of...

11/3,K/9 (Item 2 from file: 484)
DIALOG(R)File 484: Periodical Abs Plustext

01113650 (USE FORMAT 7 OR 9 FOR FULLTEXT)
Tubiakou's Spirit Flight
Milovsky, Alexander S
Natural History (GNAH) , p 34-41 , **p.** 8
Jul 1992
ISSN: 0028-0712 **Journal Code:** GNAH
Document Type: Feature
Language: English **Record Type:** Fulltext; Abstract
Word Count: 3067 **Length:** Long (31+ col inches)
TEXT:

...appropriately colored wooden frame. The lower world, on the other hand,
requires one made of **mammoth bone**, because all the spirits there are mammothlike.
Shamans used to **heal** only their clansmen or relatives, but in
the nineteenth century it became part of professional...

16/3,K/6 (Item 6 from file: 135)
DIALOG(R)File 135: NewsRx Weekly Reports

0001458843 (USE FORMAT 7 OR 9 FOR FULLTEXT)

Studies from Tianjin University add new findings in the area of magnetic resonance imaging therapy
Biotech Business Week, February 1, 2010, p.2681

DOCUMENT TYPE: Expanded Reporting
LANGUAGE: English
RECORD TYPE: FULLTEXT
WORD COUNT: 453

TEXT:
... from Tianjin, People's Republic of China, "Magnetic iron oxide nanoparticles (MNP) coated with gum **arabic** (**GA**), a biocompatible phytochemical glycoprotein widely used in the food industry, were successfully synthesized and characterized... ... Therapy). GA-coated MNP (GA-MNP) displayed a narrow hydrodynamic particle size distribution averaging about **100** nm; a GA content **of** 15.6% by dry weight; a saturation magnetization of 93.1 emu/g Fe; and... ... Imaging, Therapy, Treatment. This article was prepared by Biotech Business Week editors from staff and **other reports**. **Copyright** 2010, Biotech Business Week **via** NewsRx.com& NewsRx.net.

22/3,K/9 (Item 2 from file: 149)
DIALOG(R)File 149: TGG Health&Wellness DB(SM)

01778596 **Supplier Number**: 20915033 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Magnetic therapy: plausible attraction? (includes an excerpt from the paper 'Magnetotherapy, the Latest Magic Touch')(Cover Story)

Livingston, James D.
Skeptical Inquirer , v22 , n4 , p25(7)
July-August ,
1998
Document Type: Cover Story **Publication Format**: Magazine/Journal
ISSN: 0194-6730
Language: English
Record Type: Fulltext; Abstract **Target Audience**: Academic; Consumer
Word Count: 5571 **Line Count**: 00455
Magnetic therapy: plausible attraction? (includes an excerpt from the paper 'Magnetotherapy, the Latest Magic Touch')(Cover Story)
Abstract: ...Medicine has tentatively concluded that permanent magnets decrease pain among post-polio sufferers. Although magnetic **therapy** has been at the forefront of the Japanese and Chinese health industries, its association with... ...Vallbona's study has made some former skeptics adopt a more open view regarding the **therapeutic** effects of permanent magnets.

Abstract:

Text:
Long considered only a **component** of quack **medicine**, magnetic **therapy** has received a boost from a recent study at the Baylor College of Medicine. Is...

...tennis magazines. Long a significant component of the health industry in
Japan and China, magnetic **therapy** is becoming a more and more visible part of the **alternative-medicine** boom in the United States and Europe. Is it all just hokum, as many previously assumed, or is
magnetic **therapy** becoming scientifically respectable?
Early History
For thousands of years, wonder and magic were associated with the
mysterious forces exerted by **natural magnets** - **magnetite**-rich rocks, today called **lodestones**. Many trace magnetic **therapy** back to Paracelsus (1493-1543), a physician and alchemist who reasoned that since magnets have...

...also aware of the important role of the patient's mind in the process of
healing (Buranelli 1975). He wrote, "The spirit is the master, the
imagination is the instrument, the...

...effect.
The development in eighteenth-century England of carbon-steel
permanent magnets more powerful than **lodestones** brought renewed interest in the possible **healing** powers of magnets, and among those
interested was Maximilian Hell, a professor of astronomy at...

...today list mesmerism as a synonym for hypnotism.) One American who
became interested in magnetic **healing** was Daniel David Palmer, who
opened Palmer's School of Magnetic Cure in Iowa in the 1890s. His ideas
developed into the system of hands-on **therapy** known as chiropractic.
Others focused on hand gestures without actual touch, an approach recently
reborn as "**therapeutic** touch." (See "Catching Up With Eighteenth Century Science in the Evaluation of **Therapeutic** Touch," by Thomas
S. Ball and Dean D. Alexander, this issue, p. 31) Mary Baker...

...century impressed the general public with the mysterious powers of
electric and magnetic fields, and **therapeutic** magnets had a rebirth,
with many "doctors" promoting magnets to relieve pain, enhance sleep, and
...

...technology, but they have also restimulated interest in the use of
permanent magnets for magnetic **therapy**. Most magnetic **therapy**
products today, like most refrigerator magnets, contain inexpensive ferrite
magnets, but many suppliers offer neodymium "supermagnets" in their
top-of-the-line products.

Magnetic **Therapy** Today

Both ferrite and rare-earth magnets, unlike earlier magnetic materials
such as steels and...are formed from silver- and gold-rich magnetic alloys
and promoted as both fashionable and **therapeutic**. One catalog claims
magnetic earrings "stimulate nerve endings that are associated with head
and neck...
...influence the whole body" and "our method can cure all types of cancer."

Many magnetic **therapy** products have alternating arrays of north
and south poles facing the patient. Some have detailed...

...that a pole that seeks south must be a north pole. (Here practitioners
of magnetic **therapy** are perhaps more logical than mainstream
science, which calls the south-seeking pole a south...

...rules were reversed in the southern hemisphere.

One of the most ardent advocates of magnetic **therapy** is Dr. William Philpott of Oklahoma, who publishes his own Magnetic Energy
Quarterly. He is...

...Nevada, a nonprofit "research and educational organization" and an
advisor to the NIH Office of **Alternative Medicine**. His wife
happens to have a business selling "Polar Power Magnets." Dr. Ronald
Lawrence of California is President of the North American Academy of
Magnetic **Therapy** and reports that he has successfully used magnets

to relieve pain in hundreds of his...

...Tectonic Magnets." Both Dr. Philport and Dr. Lawrence favor unipolar
magnets.

The efficacy of magnetic **therapy** (or of any other medical treatment, mainstream or alternative) does not depend on our understanding
the biological mechanism. Nevertheless most promoters of magnetic **therapy** recognize the need for offering some plausible explanation.
The mechanism most commonly offered for various **therapeutic** effects
of magnets is improved blood circulation, despite a lack of clear evidence
for such...

...have decreased as much as 30 percent over the last millennium. He argues
that magnetic **therapy** simply provides some of the magnetic field that the earth has lost.

Magnetic **therapy** is also prominent in the treatment of thoroughbred racehorses. An injured racehorse represents potential loss of
a substantial investment, providing considerable incentive to try "
alternative medicine" to supplement mainstream veterinary treatment. Magnetic pads for a variety of leg problems, magnetic blankets
...

...but forget that it may influence the human who is interpreting the
effect of magnetic **therapy** on the animal.

The Baylor Study

These examples and the centuries-old connection between magnets and
quackery, have led many to consider modern magnetic **therapy** as total
hokum, with the many testimonials for the success of magnetic treatments
explainable by...
...magnets, and which were shams. Before and after the forty-five-minute
period of magnet **therapy**, the patients were asked to grade their pain on a scale from 0 to 10...

...of distinguishing active magnets from sham magnets (although the
patients were reportedly observed during the **therapy** period to assure that they were not surreptitiously testing their magnets). Another

difficulty of any...

...Dr. William Jarvis, president of the National Council Against Health
Fraud, had formerly dismissed magnet **therapy** as "essentially quackery." He now tentatively admits that it may have value for post-polio
pain.
More studies will be needed before magnetic **therapy** will be accepted by a majority of the medical community, and some studies are
already underway. Last year the NIH Office of **Alternative Medicine** gave a million-dollar grant to Dr. Ann Gill Taylor of the
School of Nursing...

...what we know about magnetic fields and the human body make it plausible
that magnetic **therapy** for pain might have a physical basis beyond mind/body effects?
Magnetic Fields and the...
...gauss (1 tesla). Unfortunately, research has been very limited at field
levels typical of magnetic **therapy** products, most of which are limited to a few hundred gauss, even at the magnet...

...water molecules once again become nonmagnetic. (We perhaps should note
that some promoters of magnetic **therapy** also promote "magnetized water." You can't magnetize water. Although water responds weakly to an...

...of that magnitude are required to balance gravitational forces, the much
lower fields of magnetic-**therapy** devices can only produce diamagnetic forces that are thousands of times smaller than gravity. (The
...diamagnetic, many organisms have been shown to contain small amounts of
strongly magnetic materials, usually **magnetite** ((Fe.sub.3)(O.sub.4)). The most extreme case is that of magnetotactic
bacteria...

...in mud collected from the marshes of Cape Cod. Each contains a long
chain of **magnetite** particles that interact strongly enough with the
earth's magnetic field to orient the bacteria along the field. **Magnetite** crystals have also been found in pigeons, honeybees, many
mammals, and even in the human...

...much smaller amounts than in the bacteria. It seems very unlikely that
there is enough **magnetite** within the human body to provide a possible mechanism to explain magnetic **therapy**. However, if **magnetite** particles were located at strategic places, they could locally amplify the effects of low magnetic...

...subtle effects on biochemical reactions (Frankel and Liburdy 1996).
Although no physical mechanisms for magnetic **therapy** have been established, the possibilities are numerous and complex. Only further
clinical tests, carefully controlled...

...dispute the results of the Baylor study and prove or disprove the claims
of magnetic **therapy**.
Some media reports have not sufficiently distinguished the Baylor form
of magnetic **therapy**, based on modest static fields from permanent magnets, with a more accepted form of "magnetic **therapy**" based on high pulsed magnetic fields from electromagnets (Malmivuo and Plonsey
1995). Pulsed magnetic fields...

PATENT SEARCH RESULTS:

? **ds**

Set	Items	Description
S1	146	MASTODON? ? OR MAMMOTH? ? OR MAMMUTH? OR STEGODON? ? OR (PRIMITIVE OR PLEISTOCENE OR MIOCENE OR LAST()ICE)()(AGE OR ERA OR YEAR? ? OR PERIOD? ? OR TIME)
S2	775144	BONE? ? OR VERTEBRA? OR RIB? ? OR FOSSIL? ? OR TUSK? ? OR SCAPULA? ? OR HUMERUS OR ULNA OR HIP()JOINT? ? OR FEMUR? ?
S3	67065	MICA? ? OR SHEET()SILICATE OR PHYLLOSILICATE OR (GLITTER? OR SILICATE OR CRYSTAL()LIKE)()MINERAL? ?
S4	10680	LOADSTONE? ? OR LODESTONE? ? OR MAGNETITE? ? OR NATURAL() MAGNET? ?
S5	1730	ELVAN? ? OR QUARTZ()PORPHYRY OR PORPHYRIT?()ROCK? ?
S6	84110	HEMATITE OR HAEMATITE OR IRON()OXIDE OR RED()STONE(2N)(DAI ()COUNTRY) OR FULCRUM()STONE? ? OR HAEMATITUM
S7	324902	HEAL? ? OR HEALING OR HEALED OR THERAPY OR THERAPIES OR THERAPEUTIC? OR REVITALIZ? OR HOMEOPATH? OR HYDROTHERAP? OR SAUNA? ? OR HOT()(BATH? OR BOX OR BOXES OR WRAP? ?) OR AROMATHERAP?
S8	54822	(NATURAL OR HOLISTIC OR COMPLEMENTARY OR ALTERNATIVE OR INTEGRATIVE OR UNCONVENTIONAL OR HERBAL? OR MEDICINAL)()(MEDICINE OR TREATMENT? ? OR REMEDY OR REMEDIES)
S9	5	S1(S)S2
S10	321819	(MEDICIN? OR THERAP? OR PHARMA?)(5N)(SUBSTANC? OR ELEMENT? ? OR COMPONENT? ? OR COMPOUND? ?)
S11	4348	S7(S)S8
S12	157	S3:S6(15N)S10:S11
S13	104304	IC=A61H?
S14	5	S12 AND S13

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S15       152   S12 NOT S14
S16        43   S15 AND S7
S17        18   S15 AND S8
S18        51   S16 OR S17

? show files

File 350:Derwent WPIX 1963-2011/UD=201118
         (c) 2011 Thomson Reuters
File 347:JAPIO Dec 1976-2010/Nov(Updated 110228)
         (c) 2011 JPO & JAPIO
File 325:Chinese Patents Fulltext 1985-20110223
         (c) 2011. SciPat Benelux NV.
```

9/25/2 (Item 2 from file: 350)
DIALOG(R)File 350: Derwent WPIX

0013085462 *Drawing available*
WPI Acc no: 2003-166075/200316
XRAM Acc no: C2003-043071
XRPX Acc No: N2003-131159
Device useful for providing therapeutic healing contains a lower mat, an upper cover, at least one herb essence supplier and an air pump
Patent Assignee: PARK J M H (PARK-I); PARK M H (PARK-I)
Inventor: PARK J M H; PARK M H

Patent Family (2 patents, 2 countries)

Patent Number	Kind	Date	Update	Type
US 20020160057	A1	20021031	200316	B
KR 2002082700	A	20021031	200319	E

Local Applications (no., kind, date): US 2001900262 A 20010707; KR 200122428 A 20010425
Priority Applications (no., kind, date): KR 200122428 A 20010425
Alerting Abstract US A1
NOVELTY - A device (D1) contains a lower mat (3), an upper cover (2), at least one herb essence supplier (41-44) and an air pump (30). (2) is coupled to (3) to form an interior space for placing the body. (41-44) Has an inlet and an outlet, the outlet in gaseous communication with the interior space provides herb essence to the interior space. (30) Is connected to the inlet of (41-44) for supplying air to the interior space.
DESCRIPTION - An INDEPENDENT CLAIM is also included for a device (D2) for eliminating poisons and pollutants from the human body and for revitalizing cells, comprising (2), (3), (41-44) or (30). (2) Is adjustable in different temperature and forms a first five-primary substance stone coating layer; (3) is adjustable in different temperature and forms vibrators and a second five-primary substance stone coating layer; (2) and (3) form an interior space; (41-44) are connected to the interior space formed by the (2) and (3), (41-44) have a discharge outlet

connected to the interior space; (30) is connected to (41-44) for supplying air.
USE - For eliminating poisons and pollutants from the human body and for revitalizing cells; for preventing numerous diseases generated by the pollution of blood and water or the destruction of cells in the human body.
ADVANTAGE - The device reproduce new activated cells and increase immunity against disease by enhancing disease preventing capability and natural healing power.
DESCRIPTION OF DRAWINGS - The figure shows perspective view of a device.
2 Upper cover
3 Lower mat
30 Air pump
41-44 Herb essence suppliers.

14/25/1 (Item 1 from file: 350)
DIALOG(R)File 350: Derwent WPIX

0008136320
WPI Acc no: 1997-236393/199722
XRAM Acc no: C1997-075880
XRPX Acc No: N1997-195415
Foot massage medicine in tablet form
Patent Assignee: ZHANG L (ZHAN-I)
Inventor: ZHANG L

Patent Family (1 patents, 1 countries)

Patent Number	Kind	Date	Update	Type
CN 1098938	A	19950222	199722	B

Local Applications (no., kind, date): CN 1994106855 A 19940618
Priority Applications (no., kind, date): CN 1994106855 A 19940618
Alerting Abstract CN A
Medicine for massaging the sole of a foot is made from 9 Chinese-**medicinal components** such as **magnetite**, dragon's bone, oyster shell, radix morindae officinalis and cistanche by grinding, sieving and forming tablets, or blocks or pieces by use of adhesive. The tablets are spread out and covered by a soft thin material.
USE - The medicine combines massage, magnetotherapy, pharmacotherapy and movement for treating hypertension, giddiness, tinnitus, frequency of urination and impotence.

Dialog eLink: Order File History PDF Download
14/5/2 (Item 1 from file: 325)
DIALOG(R)File 325: Chinese Patents Fulltext

0004210033

SciPat Acc No: CN201631631U *Drawing available*

Temperature adjustable health care stone

Patent Publications						
	Patent Number	**Kind**	**Date**	**Application Number**	**Kind**	**Date**
Main Patent:	CN 201631631	U	20101117	CN 200920214927	U	20091231

International Patent Classification								
IPC	**Class Level**	**Scope**	**Position**	**Status**	**Version Date**	**Action Date**	**Source**	**Office**
A61H-0039/04	A	I	F	B	20060101	20101119	H	CN
A61H-0039/06	A	I	L	B	20060101	20101119	H	CN

Record Type (Availability): ABSTRACT SPECIFICATION CLAIMS IMAGE
Word Count: 1372
Publication Language: CHINESE
Translation Language: Human Assisted Machine Translation to English

Abstract:
This utility model claims a temperature adjustable health care stone it comprises base plate tube filling layer the cobblestone water mixing device water collecting segregator wherein said base layer is laid on the disk pipe coil is pebble is set in the middle of the filling layer on the pipe coil is connected with the water mixing device and the water collector. Adopting said structure of this utility model compared with existing technology in the pebble bottom there is a heat-supply serpentine tube which can make the pebble at any time are it is suitable for keeping the temperature greatly prolong the using time and range.

14/5/4 (Item 3 from file: 325)
DIALOG(R)File 325: Chinese Patents Fulltext

0000408975
SciPat Acc No: CN2234794Y *Drawing available*

Trace element ion strong therapeutical device

Patent Assignee (name, country): LUO LIANSHENG, CN
Inventor (name, country): LIANSHENG LUO, CN; SHIMING YAN, CN

Patent Publications						
	Patent Number	**Kind**	**Date**	**Application Number**	**Kind**	**Date**
Main Patent:	CN 2234794	Y	19960911	CN 1995216914	U	19950706

International Patent Classification								
IPC	**Class Level**	**Scope**	**Position**	**Status**	**Version Date**	**Action Date**	**Source**	**Office**
A61M-037/00			Main		"Version 7"			
A61H-023/02			Secondary		"Version 7"			
A61M-0037/00	C	I		R	20060101	20051110	M	EP
A61H-0023/02	C	I		R	20060101	20051110	M	EP
A61H-0023/02	A	I		R	20060101	20051110	M	EP
A61M-0037/00	A	I		R	20060101	20051110	M	EP

Record Type (Availability): ABSTRACT SPECIFICATION CLAIMS IMAGE
Word Count: 1248
Publication Language: CHINESE
Translation Language: Human Assisted Machine Translation to English

Abstract:
The utility model discloses a trace element ion strong therapeutical device, which makes use of heat which is generated by electromagnetic induction on the upper part of the original strong magnetism and strong vibration physio therapy device. On the basis of the heat which is used, two trace element medicine boxes which are provided with element medicine bags are arranged on the utility model. When the utility model is used, trace element ions which are beneficial for human bodies in the element medicine bags can be led to permeate the human bodies under the action of thermal energy and massage. So the purposes of the enlargement of treatment range and the enhancement of treatment effect can be achieved.

Legal Status Count: 2

Legal Status Information		
Date	**Legal Event**	**Details**
20000830	cessation of patent right (cessation of patent right due to non-payment of the annual fee)	App Date: 19950706
19960911	granted	

18/25/1 (Item 1 from file: 350)
DIALOG(R)File 350: Derwent WPIX

0021252892 *Drawing available*
WPI Acc no: 2010-N79993/201082
Five element medicine magnetic pillow, has pillow core comprising three independent hollow inner bags, and physical therapy convex head fixed on surface of hollow inner bag in middle part of pillow core
Patent Assignee: QIU Y (QIUY-I)
Inventor: QIU Y, CN

Patent Family (1 patents, 1 countries)				
Patent Number	**Kind**	**Date**	**Update**	**Type**
CN 201595563	U	20101006	201082	B

Local Applications (no., kind, date): CN 200920315643 U 20091124
Priority Applications (no., kind, date): CN 200920315643 U 20091124
Alerting Abstract CN U
NOVELTY - The pillow has a pillow core placed with three independent hollow inner bags, where a long edge on both sides of the pillow core is designed in a crescent moon shape. A physical **therapy** convex head is fixed on a surface of the hollow inner bag in a middle part of the pillow core. Multiple traditional Chinese medicines are prepared based on five elements and far infrared biocarbon magnetic flux tube particles and provided on the hollow inner bags at both sides of the pillow core, respectively. The physical **therapy** convex head is made of magnetite and natural ocher.
USE - Five element medicine magnetic pillow.
ADVANTAGE - The pillow core is designed in double-side crescent moon shape, thus ensuring supporting and positioning between cervical vertebra and shoulder in sleeping posture of laying on one side of a human body, and preventing damage caused by neck and shoulder syndrome, and hence improving sleeping quality and recovering blood supply environment of neck and brain. The hollow inner bags and contents form a five-element magnetic field effect, so that yin and yang are balanced and cooperation of the body can be realized. The **magnetite** and ocher are arranged in

sequence at an interval, thus facilitating interaction between the five-**element medicine** on side of the inner bag and the far infrared biocarbon magnetic flux tube, exerting more medicine functions, and enabling bidirectional adjustment of head, neck and seven orifices.
DESCRIPTION OF DRAWINGS - The drawing shows a top partial sectional view of a five element medicine magnetic pillow.

18/25/2 (Item 2 from file: 350)
DIALOG(R)File 350: Derwent WPIX

0020725735
WPI Acc no: 2010-C54666/201050
Wound-healing medication and method of obtaining which includes active substance - nanoparticles
Patent Assignee: AS SIBE OIL CHEM INST (ASIO)
Inventor: DAMBAEV G TS; SIROTKIN S S; SIROTKINA E E; ULBRIKHT V A

Patent Family (1 patents, 1 countries)

Patent Number	Kind	Date	Update	Type
RU 2383349	C1	20100310	201050	B

Local Applications (no., kind, date): RU 2008132200 A 20080804
Priority Applications (no., kind, date): RU 2008132200 A 20080804
Alerting Abstract RU C1
NOVELTY - Invention relates to wound-**healing** medication, which includes active substance - nanoparticles, containing 98-99% of iron oxide-hydroxide (IOH) and oxides of silicon, aluminium, calcium, isolated from underground waters on deironing stations, polyvinyl alcohol and water. Invention also relates to method of obtaining wound-**healing** medication, which includes mixing of components and processing of suspension with ultrasound.
USE - Medicine.
ADVANTAGE - Invention allows to obtain medication possessing wound- **healing** and bactericidal properties of prolonged action.
2 cl, 1 tbl, 2 ex

18/25/3 (Item 3 from file: 350)
DIALOG(R)File 350: Derwent WPIX

0020304751
WPI Acc no: 2010-B59684/201027
Fortified selenium and germanium enriched high-efficiency bra useful for preventing and/or treating cancer and mammary disease, comprises bra medical core and high-content organic selenium and germanium mycelium dried powder
Patent Assignee: CHENG J (CHEN-I)
Inventor: CHENG G; CHENG J; CHENG L

Patent Family (1 patents, 1 countries)				
Patent Number	**Kind**	**Date**	**Update**	**Type**
CN 101637311	A	20100203	201027	B

Local Applications (no., kind, date): CN 200910033808 A 20090616
Priority Applications (no., kind, date): CN 200910033808 A 20090616

Alerting Abstract CN A

NOVELTY - Fortified selenium and germanium enriched high-efficiency anticancer life-prolonging bra comprises bra medical core and high-content organic selenium and germanium mycelium dried powder. The bra medical core is obtained by adding bee mixed powder, traditional Chinese medicine fine powder, eruptive rock containing aluminosilicate and copper nitride. The high-content organic selenium and germanium mycelium dried powder is obtained by transforming the substance in the bra using *Saccharomyces* or *Ganoderma lucidium* edible fungi, selenium and germanium enriched microorganism.

ACTIVITY - Cytostatic.

USE - The fortified selenium and germanium enriched high-efficiency bra is useful for preventing and/or treating cancer (claimed) and mammary disease.

ADVANTAGE - The fortified selenium and germanium enriched high-efficiency bra strengthens the health of women.

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18/5/24 (Item 17 from file: 325)

DIALOG(R)File 325: Chinese Patents Fulltext

0002838744

SciPat Acc No: CN101284065A

Chinese medicinal composition for treating the prostatitis and preparation method thereof

Patent Assignee (name, country): SECOND AFFILIATED HOSPITAL OF, CN

Inventor (name, country): ZHIQIANG CHEN, CN

Patent Publications						
	Patent Number	**Kind**	**Date**	**Application Number**	**Kind**	**Date**
Main Patent:	CN 101284065	A	20081015	CN 200710090216	A	20070413

International Patent Classification								
IPC	**Class Level**	**Scope**	**Position**	**Status**	**Version Date**	**Action Date**	**Source**	**Office**
A61K-0035/56	C	I	L	B	200601 01	20081015	H	CN
A61K-0036/185	C	I	F	B	20060101	20081015	H	CN
A61K-0009/48	C	I	L	B	20060101	20081015	H	CN
A61K-0009/20	C	I	L	B	20060101	20081015	H	CN
A61K-0009/10	C	I	L	B	20060101	20081015	H	CN
A61K-0009/08	C< td>I	L	B	20060101	20081015	HCN		
A61K-0009/16	C	I	L	B	20060101	20081015	H	CN
A61P-0013/00	C	I	L	B	20060101< td>20081015	H	CN	
A61K-0009/14	C	I	L	B	20060101	20081015	H	CN
A61K-0009/48	A	I	L	B	200601 01	20081015	H	CN
A61K-0035/56	A	I	L	B	20060101	20081015< td>H	CN	
A61K-0009/10	A	I	L	B	20060101	20081015	H	CN
A61K-0009/20	A	I	L	B	200601 01	20081015	H	CN
A61P-0013/08	A	I	L	B	20060101	20081015< td>H	CN	
A61K-0009/14	A	I	L	B	20060101	20081015	H	CN
A61K-0009/08	A	I	L	B	200601 01	20081015	H	CN
A61K-0009/16	A	I	L	B	20060101	20081015< td>H	CN	
A61K-0036/756	A	I	F	B	20060101	20081015	H	CN

Record Type (Availability): ABSTRACT SPECIFICATION CLAIMS

Word Count: 18864

Publication Language: CHINESE
Translation Language: Human Assisted Machine Translation to English

Abstract:
The invention provides a medicine for treating prostatitis and a preparation method thereof. The Chinese traditional medicine is prepared from amur corktree, turtle shell, cowherb seed, talcum powder, banksian rose and twotooth achyranthes root by extracting and obtaining the inventive preparation. The medicine has effects of clearing away heat, nourishing yin, promoting urination and removing blood stasis, and can be mainly used for treating prostatitis, particularly chronic prostatitis.

18/5/25 (Item 18 from file: 325)
DIALOG(R)File 325: Chinese Patents Fulltext

0002800027
SciPat Acc No: CN101269125A

Chinese medicine composition for treating hypertension

Patent Assignee (name, country): ZHEN HAN, CN
Inventor (name, country): ZHEN HAN, CN

Patent Publications						
	Patent Number	**Kind**	**Date**	**Application Number**	**Kind**	**Date**
Main Patent:	CN 101269125	A	20080924	CN 200810014938	A	20080403

International Patent Classification								
IPC	**Class Level**	**Scope**	**Position**	**Status**	**Version Date**	**Action Date**	**Source**	**Office**
A61K-0036/185	C	I	F	B	20060101	20080924	H	CN
A61P-0009/00	C	I	L	B	20060101	20080924	H	CN
A61K-0035/56	C	I	L	B	20060101	20080924	H	CN
A61K-0033/26	C	I	L	B	20060101	20080924	H	CN
A61K-0035/56	A	I	L	B	20060101	20080924	H	CN
A61P-0009/12	A	I	L	B	20060101	20080924<td>H	CN	
A61K-0036/704	A	I	F	B	20060101	20080924	H	CN
A61K-0033/26	A	I	L	B	20060101	20080924	H	CN

Record Type (Availability): ABSTRACT SPECIFICATION CLAIMS

Word Count: 2356
Publication Language: CHINESE
Translation Language: Human Assisted Machine Translation to English

Abstract:
The invention relates to a traditional Chinese medicine compound for treating hypertension, which belongs to a traditional Chinese medicine and is characterized in that the weight of active ingredients for the prepared medicine is as follows: 5 to 15 grams of rhizome ligustici wallichii, 5 to 15 grams of epimedium, 5 to 15 grams of eucommia bark, 5 to 15 grams of tortoise plastron, 5 to 15 grams of Lingustrum lucidum Ait, 10 to 20 grams of fleece-flower root, 10 to 20 grams of salvia miltiorrhiza, 25 to 35 grams of viscum album, 25 to 35 grams of **magnetite** and 10 to 20 grams of ormer. The traditional Chinese **medicine compound** for treating hypertension can tonify qi, activate blood circulation, relax the muscles and joints, soften blood vessels, activate the heart and relax the pulse. Over 150 cases of hypertension clinical research prove that 5 to 15 days of dosage sees a steady decline in blood pressure and obviously improves symptoms of headache, dizziness, heart-throb, chest distress and hypodynamia and 1 or 2 periods of treatment witnesses a steady blood pressure and normal blood-fat and blood viscosity. The traditional Chinese medicine compound for treating hypertension can prevent and cure stroke, hemiplegy and arteriosclerosis

effectively and the cure rate can reach as high as 97.8 percent. The traditional Chinese medicine compound for treating hypertension thoroughly solves the difficult medical problem that hypertension is recurrent and chronically hard to cure.